

1 ABSTRACT OF THE DISCLOSURE

2 A hypocycloid reducing apparatus includes a hollow outside bracket, a
3 hollow inside bracket and a driven input that is rotated by a rotating mechanism,
4 such as a motor. The outside bracket has a passage with N quantity of lobe
5 grooves. The inside is rotatably mounted in the passage of the outside bracket
6 and has an inner space, M quantity of through holes and an output shaft. The
7 through holes are arranged in an annular arrangement, are aligned with the lobe
8 grooves and each through hole holds a roller. The driven input is mounted
9 rotatably in the inner space and has an off-center assembly to encounter
10 sequentially with each roller to actuate rotating the inside bracket. Therefore, a
11 speed of revolution of the rotating mechanism is reduced to the output shaft. A
12 volume of the reducing apparatus is minimized, as is noise produced during
13 operation.